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## GATEWAY APPARATUS FOR PERFORMING COMMUNICATION BETWEEN WAN AND LAN

## ABSTRATE OF THE DISCLOURE

A gateway apparatus is used in performing communication between local area networks (LAN) and wide area networks (WAN) is provided. The gateway apparatus includes a plurality of input/output ports for connecting the WAN with the LAN, a buffer device for accessing packets which has a transporting path selected from sending the packets from the WAN to the LAN and sending the packets from the LAN to the WAN, a plurality of medium access control units corresponding to said input/output ports and electrically connected between the buffer device and the input/output ports for performing an accessing operation between the buffer device and the input/output ports, a memory device electrically connected to the buffer device for storing the packets sent from the buffer device and a central processing unit electrically connected between the memory device and the medium access control units for processing the packets stored in the memory device, and organizing the medium access control units to change the input/output ports according to a required transporting path, thereby performing the communication between the LAN and the WAN.